The 3rd UN World Conference on Disaster Risk Reduction in Sendai
PUBLIC FORUM

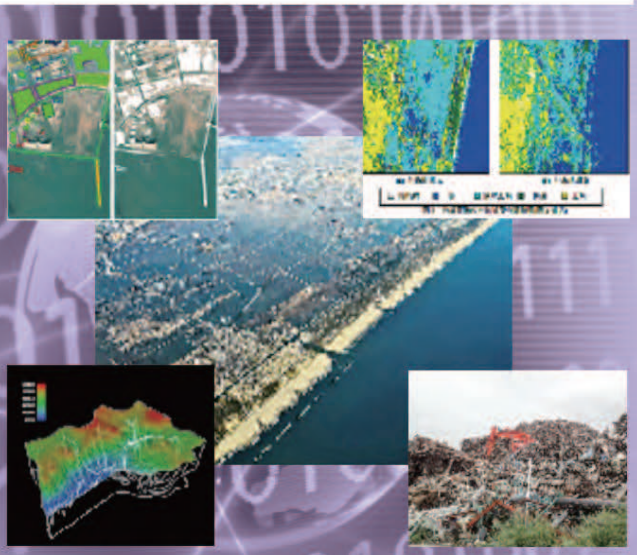
Analysis of aerial photographs and satellite images for the estimation of mega-disaster waste in devastated areas

– Laboratory of Multidisciplinary Research on the Circulation of Waste Resources, Sendaikankyo Co. Endowed Lab, Graduate School of Environmental Studies, Tohoku University–

15 MAR 2015

9:00~11:00

Sendai Civic Auditorium, Cofference Room No.1
4-1, Sakuragaoka Koen, Aoba-ku, Sendai.
Tel 022-262-4721



Forum abstract

Areas devastated by mega-disasters suffer from severe damages of their infrastructures. Lack of information prevents fast reconstruction of the affected areas. The analysis of aerial photographs and satellite images can be employed to gather information of the affected areas necessary for their reconstruction. The results can be widely used for planning the tasks required for recovery such as scheduling the waste removal and the business recovery process for companies, etc. The aim of this forum is to introduce our effort to detect the damaged building and to estimate the amount of disaster debris (waste) by using aerial photographs and by satellite images, and to discuss the future perspective of applying the results to disaster waste transport planning and water resource management system.

Programme

9:00	Opening
9:10~9:15	**Opening Address** Azuma Ohuchi Professor, Graduate School of Environmental Studies, Tohoku University
9:15~9:35	**Analysis of Remote Sensing Data to Estimate Amount of Disaster Waste** Yoichi Kageyama Professor, Graduate School of Engineering and Resource Science, Akita University
9:35~10:05	**Estimation Amount of Disaster Debris by Analyzing the Aerial Images** Masahito Yamamoto Professor, Graduate School of Information Science and Technology, Hokkaido University
10:05~10:25	**Issues of Disaster Waste Transport Planning** Kunihiro Kishi Associate Professor, Graduate School of Engineering, Hokkaido University
10:25~10:45	**Building of Water Resource Management System with Integrated Water Cycling Simulation** Hiroshi Yamamura Assistant Professor, Faculty of Science and Engineering, Department of Integrated Science and Engineering for Sustainable Society, Chuo University
10:45	Closing

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